

Title (en)

WAVE-SHAPED PHYSIOLOGICAL SIGNAL ACQUISITION DEVICE AND PHYSIOLOGICAL SIGNAL ACQUISITION MATTRESS

Title (de)

VORRICHTUNG ZUR ERFASSUNG WELLENFÖRMIGER PHYSIOLOGISCHER SIGNALE UND MATRATZE ZUR ERFASSUNG PHYSIOLOGISCHER SIGNALE

Title (fr)

DISPOSITIF D'ACQUISITION DE SIGNAL PHYSIOLOGIQUE ONDULÉ ET MATELAS D'ACQUISITION DE SIGNAL PHYSIOLOGIQUE

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Application

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Abstract (en)

The present disclosure provides a wavy physiological signal collecting device and a physiological signal collecting mattress. The device includes a wavy flexible body including a flexible body panel and a plurality of protruding flexible bodies each of which is arranged on the flexible body panel for converting a human body pressure applied thereto to a tensile force; a tensile force sensor arranged in the flexible body panel for generating an electrical signal according to the tensile force; and a signal processing unit configured for processing the electrical signal to obtain a human body physiological signal. The wavy flexible body converts the human body pressure to an electrical signal and processes the electrical signal, thereby obtaining the human body physiological signal in daily life without directly contacting human skin, allowing the physiological signal to be obtained more conveniently.

IPC 8 full level

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